

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	0	S2 and salicylate	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:17
S2	41	508/175.ccls. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:17
S1	1	"5665684".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:18
S5	19	(calcium adj salicylate) with (carbon adj atoms) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:20
S7	1	"4873004".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:22
S6	1	"5652201".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:22
S10	0	(dialkylsalicylic) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:26
S8	0	(dialkylsalicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:26
S16	3	(S14 or S15) and detergent	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:29
S15	45	di\$5salicylate	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:29
S14	168	di\$5salicylic	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:29
S13	0	jp-4835325-\$.did.	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:29
S19	15	S18 not S17 not S16	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:30
S18	17	(S14 or S15) and oil	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:30
S17	6	(S14 or S15) and lubric\$8	EPO; JPO; DERWENT	AND	ON	2007/05/09 11:30
S24	0	(methyl adj alkylsalicylic) and "508". clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:51
S23	1	(methyl adj alkylsalicylate) and "508". clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:51

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S22	0	(methylalkylsalicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:51
S21	0	(methylcalcium) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:51
S25	6	("5380508").URPN.	USPAT	AND	ON	2007/05/09 11:55
S26	10	("4668409"   "4683126"   "4734211"   "4744929"   "4965004"   "5013463"   "5064545"   "5102560"   "5160652"   "5262140").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 11:59
S29	7	(di\$9salicylic) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:00
S28	7	(di\$6salicylic) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:00
S27	0	(di\$6salicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:00
S12	0	(di\$5salicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:00
S11	7	(di\$5salicylic) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:00
S31	3	S26 and salicyl\$3	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:01
S30	2	(di\$9salicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:01
S20	2	(methylsalicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:01
S35	44	S34 not S9	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:02
S34	49	(methyl with salicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:02
S33	0	(ethylsalicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:02
S32	1	(octylsalicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:02

## EAST Search History

S38	0	(dialkylated adj salicylate) and "508". clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:13
S37	2	(alkylated adj salicylate) and "508". clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:13
S36	29	(methyl near salicylate) and "508". clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:13
S41	10	("4748259").URPN.	USPAT	AND	ON	2007/05/09 12:23
S40	1	"4748259".pn.	USPAT	AND	ON	2007/05/09 12:23
S39	8	("5415792").URPN.	USPAT	AND	ON	2007/05/09 12:23
S42	27	("3438899"   "4617135"   "4647387"   "4748259"   "4810398"   "4832857"   "4869837"   "4995993"   "5049294"   "5075416"   "5147570"   "5225588"   "5415792"   "5647896"   "5734078"   "5744430"   "6107259"   "6140281"   "6140282"   "6191081"   "6197075"   "6239083"   "6255258"   "6284717"   "6303550"   "6372696").PN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:25
S44	0	(styrenated adj salicylate) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:28
S43	23	S42 and salicyl\$3	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:28
S47	8	(styrene near salicylate) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:29
S46	342	(styrene with salicylate) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:29
S45	11	(styrenated with salicylate) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 12:29
S48	1	"6306801".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 15:01
S49	1	"5652201".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 16:58
S54	15	(trihydrocarbyl adj phosphite) with zinc and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 16:59

## EAST Search History

S51	0	(zinc adj triphenyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 16:59
S56	0	(zinc adj tricresyl adj phosphate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:03
S55	971	(tricresyl adj phosphate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:03
S59	6	(phosphoric adj acid adj diester) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:05
S58	1	zinc adj dihydrocarbyl adj phosphate and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:05
S61	0	(lithium) near (trihydrocarbyl adj phosphite) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:06
S60	0	(metal adj salt) near (trihydrocarbyl adj phosphite) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:06
S65	14	S64 not S54	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:07
S64	16	zinc with (triphenyl adj phosphite) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:07
S63	0	zinc near (triphenyl adj phosphite) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:07
S62	284	(triphenyl adj phosphite) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:07
S53	109	(trihydrocarbyl adj phosphite) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:07
S68	0	calcium near (tricresyl adj phosphate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:10
S67	505595	calcium	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:10
S66	0	lithium near (tricresyl adj phosphate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:10

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S57	55	zinc near (triclesyl adj phosphate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:10
S72	2	(metal adj dihydrocarbyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:11
S71	0	(lithium adj dihydrocarbyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:11
S70	0	(zinc adj dihydrocarbyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:11
S69	0	(zinc adj dihydrocarbyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:11
S52	0	(zinc adj trihydrocarbyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:11
S78	2	(metal adj dialkylphosphate)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:12
S77	17	(metal adj dialkyl adj phosphate)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:12
S76	1	(metal adj trialkyl adj phosphate)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:12
S75	0	(metal adj trialkyladj phosphate)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:12
S74	0	(metal adj trihydrocarbyl adj phosphate)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:12
S73	0	(metal adj dihydrocarbyl adj phosphate)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:12
S80	2	S79 and "508".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:13
S79	27	(metal adj dialkyl adj phosphite)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:13
S84	2	"2758971".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:15

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S83	1	"4356097".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:15
S81	3	(metal adj phosphites) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:15
S86	0	(alkali adj metal adj phosphate) with antiwear and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:20
S82	77	(metal adj phosphates) and "508". clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:20
S85	32	(alkali adj metal adj phosphate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 17:59
S87	0	(S49 or S50) and valve	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 18:00
S91	50	S89 and "508".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 18:26
S90	199	S89 not "508".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 18:26
S88	142	(valve adj train) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 18:26
S92	2	(valve adj train).ti. with lubric\$8 and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 18:29
S89	249	(valve adj train) with lubric\$8 and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/09 18:29
S94	1	"20050272616".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 12:24
S93	1	"20060270567".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 12:24
S95	69	508/440.ccls. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 15:01
S50	1	"5498809".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 16:39

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S97	1	"3933659".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 16:40
S98	198	amide with (friction adj modifier) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 17:11
S100	1	"4280916".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 17:36
S99	72	(fatty adj acid adj amide) with (friction adj modifier) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/10 17:36
S102	1	"20050130855".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/11 13:55
S103	6	("5380508").URPN.	USPAT	AND	ON	2007/05/18 12:04
S107	0	(dihydrocarbyl adj salicylate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/05/18 12:15
S106	2	ep-351052-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/05/18 12:15
S105	2	ep-347103-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/05/18 12:15
S104	6	(hydrocarbyl adj salicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 12:15
S110	133	(calcium adj salicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 12:16
S109	3	(stearyl near salicylate) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 12:16
S108	0	(disubstituted adj salicylate) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 12:16
S9	54	(alkylsalicylate) and "508".clas. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 12:19

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S11 2	1	"5434293".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 12:30
S11 1	71	(alkylsalicylate) and @ad<"20020805"	EPO; JPO; DERWENT	AND	ON	2007/05/18 12:30
S11 3	4	("5434293").URPN.	USPAT	AND	ON	2007/05/18 12:32
S11 6	51	S114 and lubric\$8	USPAT	AND	ON	2007/05/18 12:33
S11 4	111	(salicylate with substituent) and @ad<"20020805"	USPAT	AND	ON	2007/05/18 12:33
S11 7	24	S116 not S115	USPAT	AND	ON	2007/05/18 12:34
S11 5	27	S114 and "508".clas.	USPAT	AND	ON	2007/05/18 14:34
S11 8	1	"20020082176".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 15:21
S12 1	43	engine with (low adj sulfur adj fuel) with lubric\$8	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 15:57
S12 0	48	S119 and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 15:57
S11 9	118	engine with (low adj sulfur) with lubric\$8	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 15:57
S12 2	18	S121 and S120	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:06
S12 4	10	S123 and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:07
S12 8	9	S127 not S124	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:11
S12 7	13	(S125 or S126) and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:11
S12 6	33	"508".clas. and (low adj sulfur adj diesel)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:11
S12 5	4	"508".clas. and (low adj sulfur adj gasoline)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:11



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S12 3	44	"508".clas. and (low adj sulfur adj fuel)	US-PGPUB; USPAT; USOCR	AND	ON	2007/05/18 16:11
S12 9	51	(detergent adj mixture) and salicylate and "508".clas. and @ad<"20030508"	US-PGPUB; USPAT; USOCR	AND	ON	2007/06/11 18:18
S13 1	2	wo-9746643-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/06/11 18:23
S13 2	0	wo-9746647-\$.did.	US-PGPUB; USPAT; USOCR	AND	ON	2007/06/12 11:35
S13 0	0	wo-9746643-\$.did.	US-PGPUB; USPAT; USOCR	AND	ON	2007/06/12 11:35
S13 6	2	wo-9746644-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/06/12 11:37
S13 5	2	wo-9746645-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/06/12 11:37
S13 4	2	wo-9746646-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/06/12 11:37
S13 3	2	wo-9746647-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/06/12 11:37
L2	89	508/390.ccls. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/06/14 14:30
L1	41	508/175.ccls. and @ad<"20020805"	US-PGPUB; USPAT; USOCR	AND	ON	2007/06/14 14:30